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With H₂O Mols in Solution, by A. ZACC, et al,
5 pp.

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Handwritten: 3.11.11

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Doc - Physics
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Theory of Electrolytic Conductivity. II.,
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S.L.A. Tr 962/56

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Sci - Chemistry
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AEC Tr 1865

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pp 245-247.
*NES TT 70-57575

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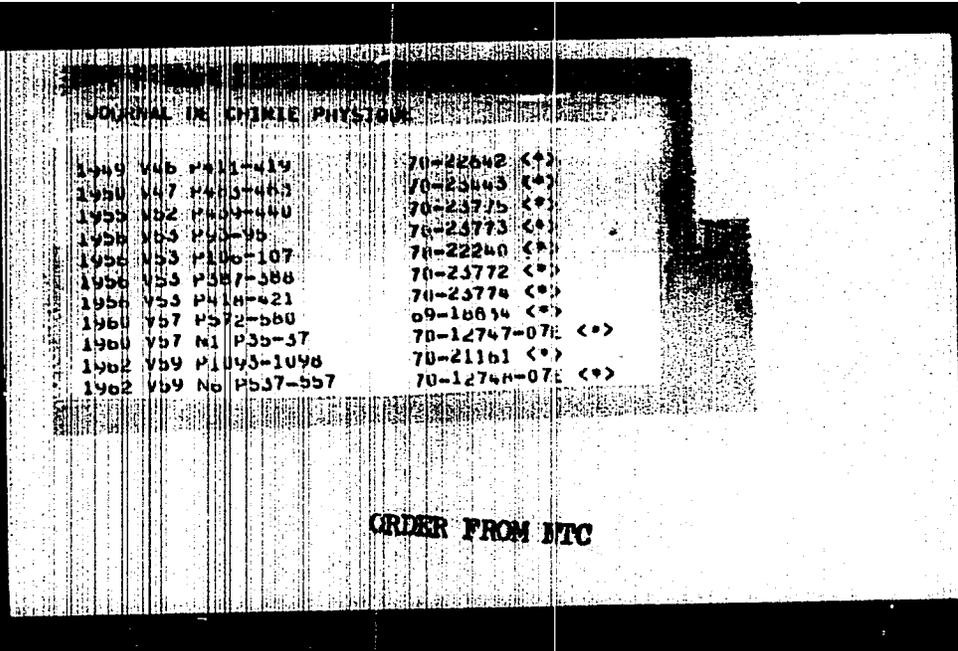
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343.

S.L.A. Tr 1311

Sci - Chemistry
Jan 57 CTS

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Differential Polarography with Single Dripping
Electrode, by P. Laveque, F. Roth.

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480-484.

INSDOC-71476

Sci

Aug 59

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The Structure of Gelatin I. State of Dispersion
of Gelatin in Solution, Molecular Weight, Viscosity,
and Fractionation, by J. Pouradier, A. M. Venet,
18 p.

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BIA 60-10386

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Mathieu, M.
STRUCTURE AND TEXTURE OF CATALYTICALLY
ACTIVE METALLIC PHASES. 9p.

Order from ATS 511, 85

ATS- 8876F

Trans. of Journal de Chimie Physique (France)
1959, v. 47, p. 223-228.

(Commissary Physical, 77, v. 2, no. 5)

TT-64-2489

- I. Mathieu, M.
- II. ATS- 8876F
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

61-10410

Pouradier, J. and Venet, A. M.
CONTRIBUTION TO THE STUDY OF THE STRUC-
TURE OF GELATIN. II. VARIATION OF PHYSICAL
AND MECHANICAL PROPERTIES WITH THE MO-
LECULAR MASS. [1960] 17p. (7 figs. 7 tables
omitted) 18 refs.
Order from S.L.A. ml\$2.40, ph\$3.30

61-10410

Trans. of Journal de Chem[ie] Phys[ique] (France)
1950, v. 47, [no. 5/6] p. 391-398.

Measurements were made on homogeneous gelatins
obtained by fractionating a commercial gelatin. The
intrinsic viscosity of these homogeneous fractions is
related to molecular mass by an equation of the type
 $[\eta] : KM$, and which in the special case of fractions
extracted from skin gelatin by liming and having an
isoelectric point of 4.75 and an average molecular
mass of 65,000, becomes $[\eta] : 1.66 \times 10^{-5} M^{0.685}$.
The melting point of gelatin gels increases with the
molecular mass and tends towards a limited value.
(Author) (See also 60-10386)

- I. Gelatina--Molecular structure
- I. Pouradier, J.
- II. Venet, A. M.
- III. Title: Variation...

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v. 5, no. 7)

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Signer, R. and Demagistri, A.
PREPARATION AND PROPERTIES OF POLYSTYRENE-
SULFONIC ACIDS. [1963] 8p (figs formulae omitted)
Order from SLA \$1.10 63-20160

I. Title: Polystyrene sulfonic
acids

I. Signer, R.

II. Demagistri, A.

Trans. of [Journal] de Chim[ie] Physiq[ue] (France)
1950, v. 47, p. 704-707.

DESCRIPTORS: *Styrenes, Polymers, *Sulfonic acids,
*Sulfonation, Synthesis (Chemistry), Electrolytes,
Chemical properties, Viscosity.

(Chemistry--Organic, TT, v. 10, no. 12)

Office of Technical Services

63-18982

Chapiro, Adolphe.
POLYMERIZATION OF VINYL COMPOUNDS INITIATED BY GAMMA RAYS. [1963] [34p] 41 refs
Order from SLA \$3.60 63-18982

I. Chapiro, A.

Trans. of Journal de Chim[ie] Phys[ique] (France)
1950, v. 47, p. 747-763.

DESCRIPTORS: *Gamma rays, *Styrene plastics,
*Vinyl plastics, *Polymerization, Polymers, Solvents,
Chemical precipitation, Reaction kinetics, Radiation
chemistry.

The kinetics of the polymerization of styrene by gamma rays was studied in different diluents. The addition of small quantities of diluent to the monomer generally produces an acceleration of the polymerization due to the greater "fragility" of the molecule of diluent to the action of gamma rays, the molecule of styrene being itself very stable. The interpretation of the results (Chemistry--Physical, TT, v. 10, no. 10) (over)

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The Actions of Radiations Ionized by Water and
Aqueous Solutions, by Marc Lefort, 48 pp.

FRENCH, ger, Jour Chim Phys, Vol XLVII, 1950, pp
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AEC Tr 3175

Sci - Phys

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Peschanski, D.
SELF-DIFFUSION OF S^{2-} AND Ag^+ IONS IN SILVER
SULPHIDE. Pt. 2 of Determination of Self-Diffusion
Coefficients by the Isotopic Exchange Method. [1962]
[25]p. 22 refs.
Order from SLA \$2.60

I. Peschanski, D.
II. Title Determination

Trans. of Journal de Chimie Physique (France) 1950,
v. 47, p. 933-941.

DESCRIPTORS: *Crystals, *Silver compounds, Sulfides,
Ions, *Silver, *Sulfur, Diffusion, Electrical conductance,
*Tracer studies.

The self-diffusion coefficients of S^{2-} and Ag^+ in
silver sulphide have been determined by the isotopic
exchange method. Their values at different temperatures
are expressed by means of the equations:

(Chemistry-Physical, TT, v. 10 no. 1)

(over)

Office of Technical Services

Role of Oxygen Radicals in Oxidations and Reductions Caused by Ionizing Radiations. 1. Study of the Cerous - Ceric System, by M. Haissinsky, M. Lefort, H. Le Bail, 11 pp.

J. Chem Phys XL
RUSSIAN, per, *Zhurnal Khim*, Vol ~~XXXX~~ ~~XXVIII~~,
1951, pp 208-212.

AEC Tr 1988

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Scientific - ~~Physics~~
Chemistry

Jan 55 CTS/DEX

Agency: Fleeting Arsenal
P.O. No. 95-695

R-10,113-D
4 Feb. 1969

Title: ON SOME PHYSICAL AND CHEMICAL PROPERTIES OF
ULTRA-SONIC CAVITATION

Author: Monod, Pierre.

Source: Journal de Chimie Physique, Vol. 48. (1951).

Language: French. pp. 336-338 3pp

Special instruction: Please translate & type 1 copy only.

Role of Oxygen Radicals in Oxidations and Re-
ductions Caused by Ionizing Radiation. 2. The
Mechanism of Reactions According to Analysis of
the Gases Produced, by M. Lefort, H. Haissinsky,

9 pp.

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C. Chim Phys.
Recherch, par, ~~Chim. Phys.~~ Chim, Vol. XLVIII, 1951,
pp 368-371.

AEC Tr 1989

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Scientific - ~~Physics~~
Chemistry

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Determination by Exchange With Deuterium Oxide of the Absorbed Water. Extension of the Exchange Method to the study of Macromolecular Structures, by Rodolphe Viallard, 2 pp.

Full translation.

FRENCH, no pag, Journal de Chimie Et Physique,
Vol XLVIII, prob Paris, Oct 1951, p 372.

CIA/FDD/U-5848

WEur - France

Sci - Nuclear Physics, deuterium oxide

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Molecular Fission of Hydrocarbons by Electron Impact, by M. Magat, R. Viillard, 27 pp.

FRENCH, par, J. Chim ~~Phys~~ Phys, Vol XLVIII, 1951, pp 285-300.

SLA 58-78

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Reproduction of ^{113m}In in a Small Amount of Carrier,
by H. Laurent, 7 pp.
RESEARCH, par. J. Chim. Phys. Vol XLVII, 1951,
pp 414-417. 922805
REC-DEPT.-Tr-356

Sci-Clean
Jun 68

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Role of Oxygen Radicals in Oxidation and the
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Arsenite-Arsenate Systems, by M. Haisinsky,
M. Lafort, 17 pp.

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AEC 3560

Sci - Phys

Apr 59

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Thermodynamics of Adsorption, by H. Calvet,

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Sci - Chem

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Changes of the Reaction Velocity Between an
Electrode and a Solvent, by J. O'M Bookris.

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SLA 61-18908

Sci
Mar 62

Vol VII, No 2

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The Structure of Gelatin^s, IV. Comparison of
Gelatin^s from Different Origins, by J.
Fournadier, A. M. Venet, 24 p.

PRESCHE, par, Jour Chim Phys, 1952, Vol XLIX,
No 3, pp 85-92.

SLA 60-10385

Sci
Apr 60
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112, 117

Measurement of Partial Vapor Pressures of
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of the Margules-Duhem Equation, by M. R.
Vandoni, M. Laudy, 8 pp.

FRENCH, per, J Chim Phys. Vol XLIX, 1952,
pp 99-102.

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AEC Tr. 2924

Sci - Chemistry
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Part II -- Verification of the Margules-Duhem
Equation for $\text{HNO}_3 - \text{H}_2\text{O}$ Mixtures at 20°C , by
G. Annis, 11 pp.

FRENCH, per, J Chim Phys, Vol XLIX, 1952,
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AEC Tr 2914

Sci - Chemistry
Jun 57

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Concerning the Passivation of Lead in Sulfuric
Acid and the Processes Occurring the the Processes
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46 pp.

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SIA 59-10171

Sci - Electron
Sep 59
Vol 2, No 1

97903

<p>Epelboin, I. AN EXPERIMENTAL STUDY OF ELECTROLYTIC POLISHING. (1960) Sp. Order from ATS \$15.85 ATS-97N47F</p> <p>Trans. of [Journal de] Chim[ie] Phys[ique] (France) 1952, v. 49, p. C214-C218.</p>	<p>61-12797</p> <ol style="list-style-type: none">I. Electrolytic polishing-- AnalysisI. Epelboin, I.II. ATS-97N47FIII. Associated Technical Ser- vices, Inc., East Orange, N. J.
<p>151554</p>	
<p>Office of Technical Services</p>	
<p>(Chemistry--Physical, TT, v. 5, no. 8)</p>	

The Structure of Gelatine, V. Degradation of
Gelatin in Isoelectric Solutions, by
J. Fourradier, A. M. Venet, 23 p.

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No 4, pp 219-244.

SLA 60-10384

Sci
Apr 60
Vol LXX, No 3

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Radio-Chemical Reactions in Nuclear Reactors,
by J. Pucheault, M. Lefort, M. Haissinski, 17 pp

FRENCH, per, J de Chimie Physique, Vol XLIX,
1952, pp 286-293. 9095555

AEC Tr-4854

Sci - Nuc Phys
Mar 62

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62-10563

Klevens, H. B. and Zimring, Lois J.
ABSORPTION SPECTRA AND DIRECTING POWER
OF THE SUBSTITUENTS IN THE FLUORINATED
BENZENES (Spectres d'Absorption et Pouvoir
Directeur des Substituants dans les Benzènes
Fluorés [1961] [24]p. (foreign text included) 33 refs.
Order from SLA 52.60 62-10563

I. Klevens, H. B.
II. Zimring, L. J.
III. Chicago U., Ill.
IV. Contract No. AF-070(09)

Trans. of Journal de Chimie Physique (France)
1952, v. 49, no. 6, p. 377-384.

DESCRIPTORS: *Benzenes, *Fluorides, Spectro-
graphic analysis, Absorption, Ionization potentials.

The spectra of a series of fluorinated benzenes were
studied in the region from 1700 to 2300 Å. The total
intensities and the oscillatory forces seem to be
only slightly influenced, but the weak suspended
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Office of Technical Services

Theoretical Problems Associated With the
Determination of the Coefficients of Auto-
Diffusion in Solids by the Method of Heterogeneous
Isotopic Exchange, by Gaston Berthier, 21 pp.

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Sci - Physics
Jun 58

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The Infrared Spectrum and the Study of Water in
Solids. Part I. General Introduction and Status of
the Problem, by Jean LeConte, 34 pp. UNCLASSIFIED

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Sci - Phys
Feb 1958

V. Study of Mixtures of Human Anti-B Isoagglutinins, by
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13 pp.

FRENCH, per, Jour Chim Phys, Vol II, 1953, pp
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NIH 5-7

Sci - Med

May 58

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III. Sedimentation Constants of Iscagglutinins,
Beta (A₁O), Beta (OO), and Beta (A₁A₁I), by
S. Fillitt-Wurmser, G. Aubel-Lesure, R. Wurmser,
11 pp.

FRENCH, per, Jour Chim Phys, Vol L, 1953, pp
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NIH 5-6

Sci - Med

May 58

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Alexander, P. and Fox, M.
POLYMERIZATION AND DEPOLYMERIZATION BY
X RAYS: THE EFFECTS OF PROTECTIVE AGENTS.
[1962] 11p. (refs. figs. tables omitted).
Order from SLA \$1.60 62-16911

Trans. of Journal de Chimie Physique (France) 1953
[v. 50] no. 6, p. 415-422.

DESCRIPTORS: *Radiochemistry, *X-rays, Radiation
effects, *Acrylic acids, *Polymerization, Decomposition,
Inhibition, Amines, Sulfides, Indoles, Chemical bonds.

(Chemistry--Physical, TT, v. 9, no. 2)

62-16911

I. Alexander, P.
II. Fox, M.
III. Title: Effects . . .

Office of Technical Services

Mass Spectrometric Detection of Free Radicals
Formed in Heterogeneous Reactions, by P. Le Goff.
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1953, pp 423-425.
NASA TT F-8583

Sci - Chem
May 64
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Colloidal Thorium Hydroxide. I. The Form and
Size of Colloidal Particles, by A. Dobry, S.
Guinand, A. Mathieu-Sisand, 15 pp.

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AEC Tr 2653

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Sci - Chemistry
Dec 56 CTS

The Electroviscous Effect. III. Solutions of
Thorium Hydroxide, 14 pp.

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511.

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Sci - chemistry
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Role of Oxygen in the Luminophores S Zn (Cu), by
E. Grillot, 11 pp.

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No 10, Oct 1953, pp 515-523.

CIA/FDD/Z-145

Scientific - Chemistry

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Associations in the Perfluoro Acids. Part III.
Study of Surface Tension, by H. B. Klevens, M. Raison.
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Navy 2209/NRL 7125

Sci - Physics
Jul 59

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Dissolution Rates of Iron and Aluminum in Aqueous
Hydrochloric Acid Solutions, by T. G. Owe Berg,
31 pp.

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AEC Tr-4329

Sci - Chem, Phys
Feb 62

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Electrochemical Research on Ruthenium by the
Method of Radioactive Tracers. I. Anodic Processes,
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YALINICH, par, Journal de Chimie Physique, Vol LI,
1954, pp 290-295. 7228784
NEC-REP-Tr-1214

Sci-Flyer
May 65

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Theory of Heterogeneous Reactors in the Dynamical
Knudsen Flow Regime, by P. LeGoff.
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Sci - Chem
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Kinetics of the Thermal Dissociation of Hydrates
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Sci - Chem
Apr 61

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The Structure and Texture of Nickel Catalysts on
Silica as Related to Their Ferromagnetic Properties,
by W. Heukelom, J.J. Broeder, L. L. Van Reijen, 12 pp.

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ATB-1006

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Quantitative Study of Isohemagglutination of Group
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Sci - Med
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Influence of the Geometrical Parameters of Catalyst
Structure on Reaction Rates, by Pierre Le Goff, 29 pp.
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The Nature of Active Centers of Heterogeneous Catalysts and the Kinetics of Catalytic Oxidation of Hydrocarbons, by G. M. Panchenkov,

FRENCH, per, J chim phys, Vol LI, 1954, pp 740-751.

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Preparation and Properties of Amorphous Alumina.
by E. Dushik, M. V. Mathieu, M. FROST, S.
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Sci - Chemistry, Physics

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Thermodynamic Data Relative to Equilibrium Between
Type Alpha Inocagglutinins and A E Agglutinogens,
by S. Mavrides, 31 pp.

FRANCO, per, Journal de Chimie Physique, Vol. XLII,
No 1, Jan 1950, pp 1-11.

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Sci. - Med
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Determination of the Coefficients of
Autodiffusion by the Method of Heterogeneous
Isotopic Interchanges. Part II. The Case of a
Resistance to the Transfer of Matter on the Sur-
face of Separation of the Phases, by Gaston
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Sci - Physics
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Kinetics of the Dehydration of Several Silicates,
by G. Sabatier, 11 pp.

FRENCH, par, Journal de Chimie Physique, Vol LII,
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SLA 59-10263

Sci - Med
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Study of Adsorption and Desorption at Liquid
Surfaces. III. Desorption of Monomolecular
Layers, by L. Ter Minassian-Saraga, 42 pp.
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NH 3-19-64

Sci-Chem
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Valence Bonds in Some Binary Compounds, by Rene
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AEC UCRL-Trans-602

Sci - Chem
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Action of Gamma Rays on Polymers in the Solid State,
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9097048

AEC HW Tr-32

Sci - Chem, Phys
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Absorption Spectrum and Thermoluminescence
Curves of Fused Quartz Irradiated by X- and
 γ -Rays, by M. Lautout, 22 pp.

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Sci - Chem, Phys
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Chemical Effects of Irradiation by Heavy Particles:
Use of the Ferrous Sulfate-Lithium Sulfate System
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and of Ionizing Radiations, by I. Dragancic, J. Salmon
7 pp.

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AEC 64-T-577

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Sandia Corporation

Quantitative Studies of Radio-Chemical Reactions.
III. Oxidation of Ferrous Sulphate by Beta
Particles, by D. M. Donaldson, W. Miller, 4 pp.

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NIH 3-19

Sci - Chemistry
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Electronic Apparatus for Measurement of Magnetic Susceptibility, by J. Jousot-Dubien, Bernard Lemanceau, Adolphe Pacault, 14 pp.

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Sci - Electronics

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Electronic Properties of Aluminum Nitride,
by J. Lagrenaudie.
FRENCH, per, Journal de Chimie Physique, Vol 53,
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NTC-71-12520-07D

Nov 71

Action of Gamma Rays on Polymers in the
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Sci/Nuclear Sci
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DAEC 2359

NPL 1454 P911068367

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Statistical Analysis of a Heterogeneous Reactor
Operation in the Dynamical Knudsen Regime,
by P. Le Goff.
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NASA TT F-8585

** Amos Material Sec*

Sci - Phys
May 64
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Experimental Methods for Studying Mechanism of
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SLA 59-10553

*INSTR F-21-6
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Problems of Energetic Accommodation of Molecules in
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SLA 59-10554

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NASA TT F-8588

Sci - Phys
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On the Polymerisation of Vinyl-chloride
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FRECHET, per, Journal de Chimie Physique,
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ANEC 2360

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The fluorescence spectrum of dibenzo-3,4,9,10-pyrene has been recorded by a photoelectric method. A chromatographic method has been perfected for separating dibenzo-3,4,9,10-pyrene from benzo-3,4-pyrene in view of an application to the analysis of tobacco tars and cigaret papers. The progress of the chromatography was followed by examination of the fluorescence spectra of the eluates. (Author)

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DESCRIPTORS: *Semiconductors, Optical properties,
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(Author)

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DESCRIPTORS: *Semiconductors, Optics, Sensitivity,
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